GENERAL INDEX.

PAGE

ACADEMY, annals of the, 1, 2, 15, 108, 139
Adjournment of the ACADEMY, 212
Aerolites, Winnebago Co., Ia., 201
Alchemy, Contributions of, to Numismatics 71
Altars, stone 97
Amendment proposed of By-Laws 204
American Journal of Science, 26, 193, 197, 198
Ampères and volts 137
Analysis of brine 40
of Kiowa Co. meteorite 190
Analysis of Bridgewater meteorite 194
Analysis of Summit meteorite, 196
of Colfax meteorite 197
of Winnebago meteorite 201
of argentarsenickel 152
Ancient shore lines 78
mounds at Inwood 199
Annual meeting 104
election 108
Antiquity of man 83
Aquamarine 151
Arctic scenery, glimpses of 156
Argentarsenickel 152
analysis of 152
Argentite, artificial 145
Artesian well 3
Artificial gems 155
Ashtabula salt well 41
Assets of the ACADEMY 205
Audubon monument 109

Bacteriology, methods of research in 139
Bell Slope, Seetzen's 22
Bolton's 23
Bitterns 43
Botany, contributions to Texan 181
Brenham Township, Kan., map of 187
Brevoort collection 3
Bridgewater meteorite 194
meteorite, analysis of 195
meteorite, polished section of 195
Brine, analysis of 40
Bulletin of the Torrey Botanical Club 6
of the National Institute. 132
Business Meetings, 1, 26, 55, 74, 98 104, 127, 137, 157, 204
Business, miscellaneous, 36, 84, 140
By-Laws, amendment to 204

Calotermes 158
Change in our climate 206
Coleopterological notices 2
Colfax meteorite 197
meteorite, analysis of 198
Collection, ichthyological 3
Colorado, Grand Cañon of the 128
Colored clays 45
marbles 95
Committee on Library 127
on Nominations 127
on Publications, 1, 107, 108, 127
Committees, special 4, 37, 70, 109
Contributions to Texan botany 181
COOK, PROF. GEORGE H., death of 4
memorial 75
Copper ores 150
pseudomorphs 140

PAGE
Corresponding Secretary, report of..... 105
COUNCIL, report of the, 1, 26, 55, 74, 98, 127, 137, 157, 204
Crinoidea 139
Cutting of the diamond..... 146

Decease of members..... 4
Desert of Sinai..... 104
flora and fauna of the.... 125
geological notes on..... 122
minerals of the.....124, 126
physical geography of.... 110
sand of the..... 123
sand storms in the..... 115
water of the..... 120
Diagonal trends of the earth's crust 15
Diamond cutting and polishing 146
Diamond washing 147
Discussions, 4, 5, 21, 37, 38. 45, 46, 69, 70, 83, 94, 95, 103, 136, 199, 200

Eclipse of the sun.....5, 47, 52
Egypt, geology of..... 122
Election, annual..... 108
of members, 1, 27, 36, 55, 71, 74, 84, 98, 127, 128, 157, 204
of officers..... 109
Ethnological research..... 2
Eutermes..... 159
Excavations in ancient mounds..... 199

Fairweather meteorite. 97
Fauna of the Desert of Sinai.. 125
Ferguson meteorite..... ... 198
Ferns and their allies.... 26
Flora of the Desert of Sinai... 125
Florida, phosphate beds of.... 85
Folk-lore..... 134
Forestry, conference on..... 56
legislation..... 62
Forest City meteorite 200
culture 57
Fossil fishes, monograph on.. 2
sharks..... 131

Gems, artificial 155
Tiffany, collection of..... 151
Geological survey of Illinois.. 132

PAGE
Glimpses of Arctic scenery... 156
Gold minerals..... ... 145
native..... 145
Grand Cañon of the Colorado. 127
Guano 85

High-water condition of the Mississippi.. 109
Horned larks of North America 128
Human remains at Inwood, N. Y..... 199

Ice age in North America.... 83
Iron, meteoric, from Butte, Montana..... 205
meteoric, from Pulaski Co., Va..... ... 205
meteoric, from Turner Mound. 193
meteoric, from Kiowa Co., Iowa 190
Irrigation, effect of, on climate 210
effects of, on rainfall..... 211
Isthmus of Panama, termites of the 157

Jade..... ... 140
Jebel Nagous..... 25
Judith River beds. 29

Kamsin..... 114
Kimberly Farm, view of the.. 186
Kiowa Co. meteorites....138, 186
analysis 190
map..... 188
weight... 189

Laramie group..... 27
Lectures, Public Course, 55, 71, 83, 104, 127, 133, 137, 139, 156, 200
Lepidoptera, a list of..... 2
Librarian, report of the..3, 56, 107
Lignite. 35
Lip ornaments..... 153
List of State and local floras.. 108
Livonia salt well..... 41
Louisiana cane juices, etc.... 108
Lower Niagara limestone, certain crinoidea of..... 139

Marbles, colored... 95
from Manchester, Vt..... 96
from Numidia..... 95

PAGE

Methods of research in bacteriology 139
Memorial notice of PROF. G. H. COOK..... 75
MENEGHINI, GIUSEPPE, death of..... 4
Mercury ores..... 149
Meteoric iron..... 97
analysis of.....195, 197, 198
analysis of mass..... 202
analysis of nickel iron.... 202
analysis of silicious part.. 202
Bridgewater, N. C. 194
Butte, Montana..... 205
Colfax, N. C 197
diagrams. ... .195, 196
Ferguson, N. C 198
Pulaski Co., Va..... 205
Summit, Ala. 196
Winnebago Co., Iowa.... 201
Meteorites from Kiowa Co., Kan.....138, 186
Mexican idols..... 97
Minerals of the Desert of Sinai exhibited at Paris, 1889... 145

Nasutitermes 158
destructive power of..... 161
Natural science, teaching in schools..... 37
Nebulæ and the nebular hypothesis..... 133
N. Y. Mineralogical Club.140, 208
State Forestry Association.... 97
Nile, scientific jottings on the. 110
physical geography of.... 116
temperature on the..... 111
rainfall on the..... 113
Notices, memorial..... 75
Numismatics, contributions of alchemy to..... 71

Officers, election of..... 109
Ojrat Ramadân..... 23
Olivene, meteoric, Kiowa Co. 191
meteoric, Turner Mound. 193
Oracanthus Agassiz (new).... 131
Ornamental stones from Rome 95

Pallasite, Kiowa Co., diagrams..... 192
Turner Mound diagrams. 192

PAGE

Paris Exhibition, 1889, minerals of 145
lecture on..... 200
Phanerogams, new or noteworthy..... 6
Phosphate beds of Florida.... 85
Photomicrography, suggestions in 76
Piffard salt well..... 41
Polynemidæ..... 15
Potash brine, analysis of..... 41
Pot-hole. 3
Proceedings American Assoc. Adv. Science 25
Protozoötites, new species.... 32
Pseudomorphs, copper..... 140
Publication Committee.1, 107, 108
Pyrotechnical photography.76, 99

Rainfall, annual..... 209
in Denver, Colorado..... 209
on the Nile..... 113
Raiyan Mœris. 55
Relation of certain thermodynamical phenomena of liquid solutions to the economy of nature. 138
Recording Secretary, report of 104
Rock-salt deposits..... 39

Salina group, rock-salt deposits of... 39
Salt mines..... 45
production 44
Sand storms.... 115
Saurians, gigantic... 25
Scientific jottings on the Nile 110
Self-luminous subjects, photography of..... 99
Serpentines of New York and vicinity 200
Silver, native, from Sweden. 150
minerals from Potosi, S. A..... 154
Sinai, Desert of 110
Singing beach at Eigg..... .. 23
Sonorous sands of Egypt.... 123
sands, cause of..... 24
sands, researches on..21, 123
South Carolina phosphate beds, yield of..... 87
Special committees, reports of, 4, 37, 70, 109
Staphylinidæ 162

PAGE
Stated meetings, 15, 21, 25, 36, 38, 47, 56, 71, 78, 83, 84, 104, 128, 133, 134, 138, 139, 140, 156, 199, 200
Storm areas..... 209
Strategic features of the Gulf of Mexico... 71
Study of folk-lore 134
Sulphur springs in the Desert of Sinai..... 121
Summit meteorite, cuts of... 196
meteorite, analysis of..... 197
Sun, total eclipse of.....5, 47, 52

Temperature, annual..... 206
annual, in Egypt..... 111
daily, in Egypt..... 111
Termes testaceus 159
albidus..... 161
minimus..... ... ., 170
prælongus..... 160
Termites of the Isthmus of Panama..... 157

PAGE
Termitogaster insolens.. 163
Texan botany, contributions to 181
Thermodynamical phenomena 138
Thread-fins 15
Toltec images..... 97
Topaz..... 149
Transmutation of metals..... 72
Treasurer's report..... ..106, 107

Vancouver's Island..... 2
Volts and ampères, and what they mean.. 137

Wadi Werdân..... 23
Wadis..... 120
Water of the Nile 120
of the desert..... 121
Winds in the desert..... 114
Winnebago meteorite... 201
meteorite, analysis of.... 202
World's Fair of 1892..... 4

INDEX OF NOMENCLATURE.

Botany, Zoölogy, and Mineralogy.

(*Names of new species in Italics.*)

PAGE

Abutilon parvulum 183
Wrightii..... 181
Acacia Greggii..... 184
Wrightii..... 184
Acer nigrum. 10
saccharum nigrum (new). 10
saccharinum nigrum..... 10
Acinetæ..... 34
Acleisanthes Berlandieri..... 181
Agave Mexicana. 182
Agathaumas sylvestre..... 28
Alauda Alpestris..... 129
Amarantus fimbriatus..... 181
spinosus..... 185
Amber..... 150
Ampelopsis heptaphylla..... 10
Amygdaloid..... 143
Analcite..... 143
Andropagon saccharoides..... 182
scoparius 182
Anonymos aquatica..... 12
Apatite..... 148
Aquamarine..... 151
Arabis Douglassii..... 8
rhomboidea bulbosa..... 8
rhomboidea purpurea..... 8
Argentarsenickel..... 152
Argentite..... 145
Asclepias subverticillata, 181, 184
verticillata..... 181, 184
Asclepiodora decumbens..... 184
Aspidisca 34
Aster diffusus..... 11
lateriflorus (new)..... 11
miser..... 11
Astragalus Mexicanus..... 183
Azurite..... 143

PAGE

Baccharis Texana..... 181
Berlandiera lyrata..... 184
Bignonia tomentosa 12
Boerhaavia linearifolia..... 185
Bouteloua hirsuta..... 182
Texana 182
trifida..... 182
Buchloë dactyloides..... 182

Calamine..... 148
Calcite..... 143
Callirrhoë involucrata 183
palmata (new)..... 183
pedata..... 183
Calophanes linearis 185
Calotermes 158
marginipennis..... 161
Caltha dentata..... 6
flabellifolia (new)..... 6
palustris flabellifolia..... 6
palustris Sibirica..... 6
radicans..... 7
Cardamine bulbosa purpurea. 8
Douglassii (new)..... 8
flexuosa (new)..... 9
hirsuta Virginica..... 9
hirsuta sylvatica..... 9
rhomboidea purpurea..... 8
rotundifolia..... 8
sylvatica..... 9
Virginica..... 9
Cardita granulata..... 88
Carditamera arata..... 88
Cardium speciosum..... 31
sublineatum..... 88
Cassia Roemeriana..... 184

PAGE
Castalia Leibergii.... 8
pygmœa..... 7
odorata minor.. 7
tetragona Georgi (new)... 7
Ceanothus ovatus..... 183
Centaurea Americana....181, 184
Ceratops..... 31
Cercis occidentalis..... .. 184
reniformis..... 184
Cestrum diurnum..... 185
Chabazite..... 144
Chalcedony..... 143
Chalcocite..... 140
Chenopodium leptophyllum.. 185
Chrysocolla..... 143
Ciliata chlamydodon..... 34
Cladium effusum..... 185
Clematis Drummondii..... 181
Pitcheri.. 183
Cocculus diversifolius..... 181
Coldenia canescens..... 185
Coleps..... 34
Columbite.. 150
Corchorus pilobolus..... 181
Coreopsis trifida..... 182
Corylus Americana..... 31
rostrata..... 31
Cothurina..... 34
Croton argyranthemus..... 181
capitatus. 182
glandulosis septentrionalis 181
gracilis..... 182
Neomexicanus.. 185
Cucurbita fœtidissima..... 184
Cuprite.. 143
Cuscuta arvensis..... 185
Cyclops.. 33
Cyperus Buckleyi (new)..... 13
cyrtolepis.... 182
lævigatus (new)..... 14
uniflorus..... 182
Cypris..... 33

Dalea formosa... 183
lasiatha..... 183
laxiflora.....183
nana..... 183
Datolite.....143, 142
Delphinium azureum.....183
Desmodium canescens.....183
Illinoense..... 183
Tweedyi (new)..... 183
Dianthera parvifolia..... ...181
Diatomeæ 33

PAGE
Diorite, orbicular.....145
Diplachne dubia.....182

Epidendrum tampense new).. 13
venosum 13
Ephedra antisyphilitica 182
Eragrostis minor 182
oxylepis.....182, 185
Eremophila Alpestris 129
Eriochloa sericea 182
Ervilia..... 34
Erythrœa Beyrichii 185
Euglena 34
Euphorbia albomarginata.....181
angusta 185
buxifolia 185
Fendleri..... . 185
Preslii..... 185
serpens 185
Wrightii.....185
Euplotes..... 34
Evax multicaulis 181, 182

Foramenifera..... 33
Freia 34

Gaillardia suavis..... 182
Gammarus..... 33
Gaura coccinea.....,.....184
Glycine umbellata..... 10
Gonobolus biflorus... 185
Gromia. 36
Guilleminia illecebroides.....181

Helenium amphibolum..... ..182
elegans..... 184
microcephalum.....181
nudiflorum 182
tenuifolium..... ...184
Heliozoa..... 33
Herpestis chamædryoides 181
Heterotricha 34
Heteropogon contortus.....182
Heulandite 143
Hicoria 185
Hoffmanseggia stricta.....184
Homalocenchrus encalypta.... 14
oryzoides (new)..... 14
Virginica (new) 14
Houstonia angustifolia..... 184
Hydatina 33
Hymenatherum pentachœtum. 182
tenuilobum 182

PAGE
Hymenopoppus flavescens.....184
Hypericum virgatum ovalifolium (new)..... 10
Hypotricha..... 34

Ilysanthes gratioloides.....185
Inoceramus..... 31
Indigofera leptosepala.....181
Ipomœa Lindheimeri.....185

Jade..... 148
Jatropha spatulata sessilifolia.181
Jouite 35
Juglans rupestris 185

Krameria lanceolata..... 183

Lapis lazuli... 148
Larrea Mexicana..... .. 181
Leersia oryzoides..... 14
Virginica..... 14
Lepachys columnaris pulcherrima..... 184
Limnanthemum aquaticum (new)..... 121
Lippia lanceolata..... ... 185
ligustrina (new) 181, 185
lycioides..... 181
Lobelia Cliffortiana brachypoda..... 184
Lygodesinia aphylla. 184
Lythrum alatum.....181, 184
alatum linearifolium..... 181

Mactra alta..... 31
Malachite 143
Malvastrum Americanum.... 181
tricuspidotum, ... 181
Marrubium vulgare..... 185
Melampodium cinereum..... 184
Melica diffusa nitens..... 185
Melochia pyramidata. 181
Melosira..... 35
Menyanthes trachysperma.... 13
Mimosa fragrans..... 184
Lindheimeri..... 184
malacophylla glabrata... 181
Mollugo verticillata..... 181
Monarda citriodora..... 185
Mytiloconcha incurva..... 88
Mytilus edulis..... 33

PAGE
Naïs 33
Nasutitermes (new)..... 158
Natrolite 143
Navicula,..... 35
Nymphœa pygmœa..... 7
tetragona..... 7

Oakesia puberula..... 13
sessilifolia nitida (new)... 13
Octocoris Alpestris.....129, 131
Alpestris adusta (new).... 131
Alpestris arenicola..... 131
Alpestris chrysolæma.... 131
Alpestris Giraudi..... 131
Alpestris leucolæma..... 131
Alpestris Merrilli (new)... 131
Alpestris pallida..... 131
Alpestris praticola..... 131
Alpestris rubea.. 131
Alpestris strigata..... .. 131
Œnothera speciosa..... 184
Oliva litterata..... ... 88
Olivine.....190, 191, 193
Onoclea sensibilis..... ... 31
Onosmodium Carolinianum... 185
Opals 150
Opercula 34
Oracanthus abbreviatus..... 132
Agassiz..... 131
fragilis 132
grandis..... 131
granulatus..... 132
Milleri..... 131
multiseriatus 132
pnigeus..... 132
vetustus..... 132
Ozokerite..... 148

Pallasite..... 192
Panicum autumnale..... 182
capillare acuminatum.... 182
dichotomum pauciflorum, 14
dichotomum viride..... 14
lachnanthum..... 182
nitidum pauciflorum (new)..... 14
nitidum viride (new). ... 14
subspicatum. 182
Texanum..... 182
Pappophorum apertum..... 182
Parkinsonia aculeata..... 184
Paronychia Jamesii..... 185
Paspalum pubiflorum..... 182

PAGE
Paulownia imperialis..... 12
tomentosa (new)..... 12
Pectolite..... 141
Perezia nana..... 184
Peridium..... 33
Peritricha planicola..... 34
Phacelia congesta..... 181
Phacus..... 33
Phaseolus diversifolius..... 10
helvolus..... 10
umbellatus (new)..... 10
Philibertia undulata..... 184
Phlox Drummondii..... 185
Rœmeriana..... 185
Physonemus Altonensis..... 133
Planaria..... 33
Pleurosigma..... 35
Pnigeacanthus deltoides..... 132
Polygala alba..... 183
ambigua..... 9
puberula..... 183
verticillata..... 183
verticillata ambigua (new) 9
Polygonum emersum..... 185
Polynemidæ..... 15
Porliera angustifolia..... 181
Populus..... 31
Porphyrite..... 143
Prehnite..... 141
Prosopis Juliflora..... 184
Pecten Madisonius..... 88
Pyrogranit..... 149
Pyrrhopappus Carolinianus.. 184
multicaulis..... 181

Rhizopoda..... 36
Rhododendron nudiflorum..... 184
Rhus aromatica..... 183
Canadensis..... 183
radicans..... 183
toxicodendron..... 183
Radiolaria..... 33
Rotifer..... 33
Rottbœllia corrugata..... 182
Ruellia humilis..... 185
ciliosa humilis (new)..... 185

Salix nigra..... 185
Salvia Texana..... 185
Sapindus marginatus..... 183
Scirpus atrovirens pallidus (new)..... 14
Schœnus nigricans (new)..... 14

PAGE
Senecio canus..... 11
Hallii (new)..... 11
Serpentine..... 200
Serpula..... 33
Setaria caudata..... 182
Solanum eleagnifolium..... 185
rostratum..... 185
Torreyi..... 185
triquetrum..... 181
Solidago lateriflora..... 11
Sonchus asper..... 181
Sophora affinis..... 184
Stethacanthus Altonensis..... 133
Stilbite..... 143
Stillingia angustifolia..... 185
Stipa setigera..... 182
Stylocola..... 34

Talinum patens..... 181
Taxodium distichum..... 31
Termes albidus..... 161
bellicosus..... 177
columnaris..... 158
lucifugus..... 158
minimus..... 158
prælongus..... 160
saltans..... 172
testaceus..... 159
Termitogaster insolens..... 163
Teucrium laciniatum..... 185
Thalamophora..... 33
Thamnosma Texanum.....182, 183
Thecocilioflagellata..... 33
Thecoflagellata..... 33
Thelysperma filifolium..... 182
longipes..... 184
trifida (new)..... 182
Topaz..... 149
Trachelomonas..... 35
Tradescantia Virginica..... 182
Trapa microphylla..... 30
Tribulus maximus.....181, 183
Triceratops..... 31
Trichloris pluriflora..... 182
Triodia acuminata..... 182
albescens..... 182
eragrostoides..... 182
Trochilia..... 34
Turquoise..... 148

Uronychia..... 34
Utricularia cleistogama (new) 12
subulata cleistogama..... 12

PAGE
Vaccinium Canadense..... 11
corymbosum atrococcum. 11
corymbosum disocarpum. 11
disomorphum (new)..... 11
fuscatum 11
Pennsylvanicum..... . 11
Vaginicolæ..... 34
Venus alveata..... 88
Verbena bipinnatifida 181
canescens..... 185
ligustrina... 181
Verbesina encelioides..... 184
Viburnum 31

PAGE
Violane..... 145
Vitis heptaphylla (new)....10, 183
rupestris..... 183
quinquefolia..... 10
Vorticellidæ..... 34

Wollastonite..... 145

Zexmenia hispida.....181-184
Zinnia pumila 184
Zizyphus obtusifolia..... ... 183

ERRATA.

Page 129. 24th line, read 1731 instead of 1831.

Page 156. Lecture Evening instead of Stated Meeting.

Page 200. Lecture Evening instead of Stated Meeting, May 19th.